

## CLAIMS

1. Cosmetic or dermatological composition intended for treating keratin substances, characterized in that it comprises, in a cosmetically or dermatologically acceptable medium, at least one grafted silicone polymer with a polysiloxane skeleton grafted with non-silicone organic monomers and at least one aqueous dispersion of insoluble particles of nonionic or cationic polymer.
2. Composition according to Claim 1, characterized in that the grafted silicone polymer comprises a main polysiloxane chain on which is grafted, inside the said chain as well as, optionally, on at least one of its ends, at least one organic group containing no silicone.
3. Composition according to Claim 1 or 2, characterized in that the grafted silicone polymer can be obtained by radical copolymerization between, on the one hand, at least one non-silicone anionic organic monomer having ethylenic unsaturation and/or a non-silicone hydrophobic organic monomer having ethylenic unsaturation, and, on the other hand, a polysiloxane having in its chain at least one, and preferably several, functional groups capable of reacting with the said ethylenic unsaturations of the said non-silicone monomers.
4. Composition according to Claim 3,

characterized in that the anionic organic monomer containing ethylenic unsaturation is chosen, alone or in the form of a monomer mixture, from linear or branched unsaturated carboxylic acids.

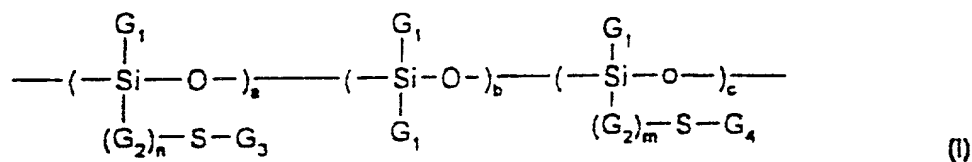
5                   5.    Composition according to Claim 4, characterized in that the anionic organic monomer containing ethylenic unsaturation is chosen, alone or in the form of a monomer mixture, from acrylic acid, methacrylic acid, maleic acid, maleic anhydride,  
10 itaconic acid, fumaric acid and crotonic acid or alkali metal, alkaline-earth metal or ammonium salts thereof, or mixtures thereof.

                  6.    Composition according to Claim 3, characterized in that the hydrophobic organic monomer  
15 containing ethylenic unsaturation is chosen, alone or as a monomer mixture, from acrylic acid esters of an alkanol and/or methacrylic acid esters of an alkanol, the alkanol preferably being  $C_1$ - $C_{18}$ .

                  7.    Composition according to Claim 6,  
20 characterized in that the hydrophobic organic monomer containing ethylenic unsaturation is chosen, alone or as a monomer mixture, from the group consisting of isooctyl (meth)acrylate, isononyl (meth)acrylate, 2-ethylhexyl (meth)acrylate, lauryl (meth)acrylate,  
25 isopentyl (meth)acrylate, n-butyl (meth)acrylate, isobutyl (meth)acrylate, methyl (meth)acrylate, tert-butyl (meth)acrylate, tridecyl (meth)acrylate and stearyl (meth)acrylate.

8. Composition according to any one of Claims 1 to 7, characterized in that the grafted silicone polymer comprises, on the main silicone chain, at least one organic group of anionic nature obtained by radical (homo) polymerization of at least one anionic monomer of unsaturated carboxylic acid type, partially or totally neutralized in the form of a salt.

9. Composition according to any one of Claims 1 to 8, characterized in that the grafted silicone polymer is chosen from silicone polymers containing in their structure the unit of formula (I) below:



in which the radicals  $\text{G}_1$ , which may be identical or different, represent hydrogen or a  $\text{C}_1\text{--C}_{10}$  alkyl radical or alternatively a phenyl radical; the radicals  $\text{G}_2$ , which may be identical or different, represent a  $\text{C}_1\text{--C}_{10}$  alkylene group;  $\text{G}_3$  represents a polymer residue resulting from the (homo)polymerization of at least one anionic monomer containing ethylenic unsaturation;  $\text{G}_4$  represents a polymer residue resulting from the (homo)polymerization of at least one hydrophobic monomer containing ethylenic unsaturation;  $m$  and  $n$  are equal to 0 or 1;  $a$  is an integer ranging from 0 to 50;

b is an integer which may be between 10 and 350, c is an integer ranging from 0 to 50; with the proviso that one of the parameters a and c is other than 0.

10. Composition according to Claim 9,
- 5 characterized in that the unit of formula (I) has at least one of the following characteristics:
- the radicals  $G_1$  denote a  $C_1$ - $C_{10}$  alkyl radical;
  - n is non-zero and the radicals  $G_2$  represent a divalent  $C_1$ - $C_3$  radical;
  - 10 -  $G_3$  represents a polymeric radical resulting from the (homo)polymerization of at least one monomer of the carboxylic acid type containing ethylenic unsaturation;
  - $G_4$  represents a polymeric radical resulting from the (homo)polymerization of at least one monomer of the
  - 15  $C_1$ - $C_{10}$  alkyl (meth)acrylate type.

11. Composition according to Claim 9 or 10, characterized in that the unit of formula (I) simultaneously has the following characteristics:
- the radicals  $G_1$  denote a methyl radical;
  - 20 - n is non-zero and the radicals  $G_2$  represent a propylene radical;
  - $G_3$  represents a polymeric radical resulting from the (homo)polymerization of at least acrylic acid and/or methacrylic acid;
  - 25 -  $G_4$  represents a polymeric radical resulting from the (homo)polymerization of at least methyl (meth)acrylate.

12. Composition according to any one of

Claims 1 to 11, characterized in that the number-average molecular mass of the grafted silicone polymer ranges approximately from 10,000 to 1,000,000, and even more preferably approximately from 10,000 to 100,000.

5           13. Composition according to any one of the preceding claims, characterized in that the grafted silicone polymer(s) is (are) present in concentrations ranging from 0.01 to 20% by weight relative to the total weight of the composition, preferably from 0.1 to 10  
10   15% by weight and more particularly from 0.5 to 10% by weight.

          14. Composition according to any one of the preceding claims, characterized in that the polymer of the aqueous dispersion comprises at least one monomer  
15   chosen from styrene, butadiene, ethylene, propylene, vinyltoluene, vinyl propionate, vinyl alcohol, acrylonitrile, chloroprene, vinyl acetate, urethanes, isoprene, isobutene and esters or amides of acrylic, methacrylic, maleic, crotonic or itaconic acid, vinyl  
20   ether, vinylpyrrolidone, vinylimidazole, trimethylammonioethyl (meth)acrylate and mixtures thereof.

          15. Composition according to any one of the preceding claims, characterized in that the nonionic  
25   polymer of the aqueous dispersion is chosen from polyesters, polyamides, polyurethanes and polyethers.

          16. Composition according to any one of the preceding claims, characterized in that the nonionic

polymer of the aqueous dispersion is chosen from:

- vinyl acetate homopolymers;
- copolymers of vinyl acetate and of acrylic ester;
- copolymers of vinyl acetate and of ethylene;
- 5 - copolymers of vinyl acetate and of maleic ester;
- vinyl chloride homopolymers;
- polyethylene waxes;
- polyethylene/polytetrafluoroethylene waxes;
- copolymers of polyethylene and of maleic anhydride;
- 10 - alkyl acrylate homopolymers and alkyl methacrylate homopolymers;
- copolymers of acrylic esters such as, for example, copolymers of alkyl acrylates and of alkyl methacrylates;
- 15 - copolymers of acrylonitrile and of a nonionic monomer chosen, for example, from butadiene and alkyl (meth)acrylates;
- styrene homopolymers;
- copolymers of styrene and of alkyl (meth)acrylate;
- 20 - copolymers of styrene, of alkyl methacrylate and of alkyl acrylate;
- copolymers of styrene and of butadiene;
- copolymers of styrene, of butadiene and of vinylpyridine;
- 25 - copolymers of styrene and of vinylpyrrolidone;
- copolymers of alkyl acrylate and of urethane.

17. Composition according to any one of Claims 1 to 14, characterized in that the cationic

polymer of the aqueous dispersion is chosen from:

- copolymers of acrylamide and of trimethylammonioethyl (meth)acrylate;
  - copolymers of alkyl methacrylate, of alkyl acrylate
- 5 and of trimethylammonioethyl (meth)acrylate.

18. Composition according to any one of the preceding claims, characterized in that the weight concentration of the insoluble polymer particles is between 0.1 and 50% relative to the total weight of the

10 composition.

19. Composition according to any one of the preceding claims, characterized in that the weight concentration of the insoluble polymer particles is between 1 and 30% relative to the total weight of the

15 composition.

20. Composition according to any one of the preceding claims, characterized in that it also contains at least one additive chosen from the group consisting of thickeners, fatty acid esters, fatty acid

20 esters of glycerol, silicones, surfactants, fragrances, preserving agents, sunscreens, proteins, vitamins, polymers, plant, animal, mineral or synthetic oils or any other additive conventionally used in the cosmetics field.

25 21. Composition according to any one of the preceding claims, characterized in that the cosmetically or dermatologically acceptable medium consists of water or a mixture of water and at least

one cosmetically acceptable solvent.

22. Composition according to Claim 21, characterized in that the cosmetically acceptable solvents are chosen from the group consisting of  
5 monoalcohols, polyalcohols, glycol ethers, fatty acid esters and mixtures thereof.

23. Composition according to any one of the preceding claims, characterized in that the keratin substance is the hair.

10 24. Composition according to any one of the preceding claims, characterized in that it is in the form of a gel, a milk, a cream, a more or less thickened lotion or a mousse.

15 25. Composition according to any one of Claims 1 to 24, characterized in that it is a styling product.

26. Composition according to any one of Claims 1 to 25, characterized in that it is a hair product chosen from the group consisting of shampoos;  
20 rinse-out or leave-in hair products to be applied before or after shampooing, dyeing, bleaching, permanent-waving or straightening the hair.

27. Composition according to any one of Claims 1 to 26, characterized in that it is packaged in  
25 the form of a vaporizer, a pump-dispenser bottle or in an aerosol container in order to obtain a spray, a lacquer or a mousse.

28. Composition according to any one of the



preceding claims, characterized in that the grafted silicone polymer is dissolved in the cosmetically or dermatologically acceptable medium or is used in the form of an aqueous dispersion of insoluble particles.

- 5                   29. Non-therapeutic process for treating keratin substances, in particular the hair, characterized in that it consists in applying a composition as defined according to any one of Claims 1 to 28 to the said substances and then optionally in  
10                   rinsing with water.